

Applicants: Yannick Boulis
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AMENDMENTS TO THE CLAIMS:

This listing of claims replaces the listing of claims in the application.

Listing of Claims:

CLAIMS

What is claimed is:

- 1) (Currently Amended) ~~A Method~~ method of the isolation of at least one biologically active substance from an industrial dairy by-product or dairy waste flow, comprising:
 - selecting at least one industrial dairy waste or dairy by-product flow containing at least one biologically active substance;
 - bringing the at least one industrial dairy waste or dairy by-product flow into contact with at least one solid insoluble support material for sufficient time to cause the at least one biologically active substance to selectively absorb on said support material;
 - recovering the insoluble solid support material carrying the absorbed at least one biologically active substance.
- 2) (Currently Amended) ~~A Method~~ method according to claim 1, wherein the at least one industrial dairy waste or dairy by-product flow is substantially liquid.
- 3) (Currently Amended) ~~A Method~~ method according to ~~any one of claim 1 or claim 2,~~ wherein the at least one industrial dairy waste or dairy by-product flow comprises not more than 30% by weight of dry matter.
- 4) (Currently Amended) ~~A Method~~ method according to ~~any one of the preceding claims~~ claim 1, wherein the at least one industrial dairy waste or dairy by-product flow is generated or supplied from an industrial process that processes or manufactures an organic product.
- 5) (Currently Amended) ~~A Method~~ method according to ~~any one of the preceding claims~~ claim 1, wherein the organic product is of animal or plant origin.

6) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the industrial dairy waste or dairy by-product flow is generated by or supplied from the group of industries consisting of a milk processing plant, butter and butter concentrate manufacture, cream manufacture, ultra fresh dairy product manufacture, casein and caseinate manufacture, and cheese manufacture.

7) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one industrial dairy waste or dairy by-product flow is milk or derived from milk.

8) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one industrial dairy waste or dairy by-product flow is whey.

9) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one solid insoluble support material and the at least one industrial dairy waste or dairy by-product flow are agitated together after being brought into contact with the other.

10) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one biologically active substance is caused to subsequently selectively desorb from the at least one solid insoluble support material.

11) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one biologically active substance is isolated from the at least one solid insoluble support material.

12) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one biologically active substance is selected from the group consisting of hormones, proteins, peptides, polypeptides, antibodies, glycoproteins, glycosaminoglycans, and enzymes.

13) (Currently Amended) A Method method according to ~~any one of the preceding claims claim 1~~, wherein the at least one biologically active substance has a biological activity selected from the group consisting of antibiotic, probiotic, anti-microbial, anti-fungal, cell

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growth regulation, neurogenerative, oestrogenic, anti-thrombotic, anti-viral, free radical and metal ions scavengers, immuno-modulatory, anti atherogenic, anti-inflammatory.

14) (Currently Amended) A ~~Complex~~ complex obtainable from a process according to ~~any one of claims~~ claim 1, wherein the complex comprises at least one solid insoluble support material on which is absorbed at least one biologically active substance.

15) (Currently Amended) A ~~Complex~~ complex according to claim 14, wherein the complex has a biological activity selected from the group consisting of antibiotic, probiotic, anti-microbial, anti-fungal, cell growth regulation, neurogenerative, oestrogenic, anti-thrombotic, anti-viral, free radical and metal ions scavengers, immuno-modulatory, anti atherogenic, anti-inflammatory.

16) (Currently Amended) An ~~Animal~~ animal feedstock composition, wherein the composition comprises a complex according to ~~any one of claims 14 or 15~~ claim 14.

17) (Currently Amended) An ~~Animal~~ animal feedstock composition according to claim 16, wherein the complex has antimicrobial activity.

18) (Currently Amended) A ~~Method~~ method according to claim 1 ~~any one of claims 1 to 13~~, wherein the at least one biologically active substance is a substance naturally present in the at least one industrial dairy waste or dairy by-product.